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What is Claimed is:

 A method for revising wiring of a circuit to prevent electro-migration, comprising the steps of:

calculating a current density at a branch of a net;

5 determining whether or not said current density exceeds a limit value;

revising a wiring which affects said current density in order to reduce said current density if said current density exceeds said limit value.

- The method as set forth in claim 1, wherein said limit value is determined to prevent said electro-migration.
 - The method as set forth in claim 1, wherein said limit value depends on drive ability of a device which drives said net.
 - The method as set forth in claim 1, wherein said limit value depends on resistance of an interval of said net, said interval ending at said branch.
- 5. The method as set forth in claim 1, wherein the revising said wiring is reducing resistance of an interval of said net, said interval ending at said branch.
 - The method as set forth in claim 5, wherein the reducing the resistance of said interval is widening said interval.

- The method as set forth in claim 1, further comprising a step of tracing said net to obtain said branch.
- 5 8. An apparatus for revising wiring of a circuit to prevent electromigration, comprising:

means for calculating a current density at a branch of a net;

means for determining whether or not said current density exceeds a limit value;

- means for revising a wiring which affects said current density in order to reduce said current density if said current density exceeds said limit value.
- The apparatus as set forth in claim 8, wherein said limit value is
 determined to prevent said electro-migration.
 - The apparatus as set forth in claim 8, wherein said limit value depends on drive ability of a device which drives said net.
- 20 11. The apparatus as set forth in claim 8, wherein said limit value depends on resistance of an interval of said net, said interval ending at said branch.
 - 12. The apparatus as set forth in claim 8, wherein the revising said

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wiring is reducing resistance of an interval of said net, said interval ending at said branch.

- The apparatus as set forth in claim 12, wherein the reducing the resistance of said interval is widening said interval.
 - 14. The apparatus as set forth in claim 8, further comprising means for tracing said net to obtain said branch.
- 10 15. A computer program product embodied on a computer readable medium and comprising codes that, when executed, causes a computer to perform the steps of:

calculating a current density at a branch of a net;

determining whether or not said current density exceeds a limit value;

revising a wiring which affects said current density in order to reduce said current density if said current density exceeds said limit value.

- 16. The computer program product as set forth in claim 15, wherein said limit value is determined to prevent said electro-migration.
 - 17. The computer program product as set forth in claim 15, wherein said limit value depends on drive ability of a device which drives said net.

- 18. The computer program product as set forth in claim 15, wherein said limit value depends on resistance of an interval of said net, said interval ending at said branch.
- 5 19. The computer program product as set forth in claim 15, wherein the revising said wiring is reducing resistance of an interval of said net, said interval ending at said branch.
 - 20. The computer program product as set forth in claim 19, wherein the reducing the resistance of said interval is widening said interval.
 - 21. The computer program product, wherein said codes further causes the computer to perform a step of tracing said net to obtain said branch.